

PRODUCTION OF 1,3,3,3-TETRAFLUOROPROPENE

Patent number: JP10007604
Publication date: 1998-01-13
Inventor: YOSHIKAWA SATORU; TAMAI RYOICHI; HIBINO YASUO
Applicant: CENTRAL GLASS CO LTD
Classification:
- **international:** C07C21/18; B01J21/06; B01J21/18; B01J23/26; C07C17/20
- **europen:**
Application number: JP19960159998 19960620
Priority number(s):

[Report a data error here](#)**Abstract of JP10007604**

PROBLEM TO BE SOLVED: To industrially produce 1,3,3,3-tetrafluoropropene useful as an intermediate raw material for medicines, agrochemicals and functional materials, a refrigerant, etc., from readily available raw materials on an industrial scale by fluorinating a specific compound with hydrogen fluoride in the vapor phase in the presence of a fluorinating catalyst.

SOLUTION: (B) 1-Chloro-3,3,3-trifluoropropene is reacted with (C) hydrogen fluoride in the vapor phase in the presence of (A) a fluorinating catalyst [e.g. active carbon supporting an oxide, an (oxy) fluoride, an (oxy)chloride or an (oxy)fluorochloride of a metal which is Cr, Ti, Al, Mn, Ni or Co] to produce 1,3,3,3-tetrafluoropropene. Furthermore, the reaction is preferably carried out by using the component C in a molar amount of 1-60 times based on the component B at 200-600 deg.C temperature under 1-10kg/cm² pressure.

Data supplied from the **esp@cenet** database - Patent Abstracts of Japan